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10/658,723	09/09/2003	Thomas J. Sabourin	133282UL (MHM-14768US01)	2790
	7590 12/28/200	EXAMINER		
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500 WEST MA	ADISON STREET	PATEL, KANJIBHAI B		
SUITE 3400				
CHICAGO, IL 60661			ART UNIT	PAPER NUMBER
,			2624	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)		
Office Action Summary		10/658,723	SABOURIN ET AL.		
		Examiner	Art Unit		
		Kanji Patel	2624		
 Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the	e correspondence address		
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLHEVER IS LONGER, FROM THE MAILING Disions of time may be available under the provisions of 37 CFR 1.1 IX (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply but apply and will expire SIX (6) MONTHS to cause the application to become ABANDO	ION. e timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).		
Status					
2a)☐ ⁻ 3)☐ \$	Responsive to communication(s) filed on <u>09 S</u> This action is FINAL . 2b) This Since this application is in condition for allowa	s action is non-final. nce except for formal matters,	•		
Dispositio	on of Claims	•			
5)		wn from consideration. or election requirement.			
,	he specification is objected to by the Examine		t but E		
-	the drawing(s) filed on 29 July 2005 is/are: a)		•		
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correc	***	• • •		
	he oath or declaration is objected to by the Ex				
Priority ur	nder 35 U.S.C. § 119				
a)[cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document application from the International Bureate the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage		
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform	il Date		
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Drawings

1. Drawings filed 7/29/05 have been approved by the examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 4-18 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Simpson et al. (US 6,676,606 B2).

For claim 1, Simpson et al. disclose a method for generating images using an ultrasound apparatus (Figure 1) comprising:

storing (32) at least one frame (column 2, lines 29-33);

generating at least one image output from said at least one frame (column 2, lines 26-33); and

displaying (40) at least said generated image output (column 2, lines 26-29).

For claim 2, Simpson et al. disclose the method of claim 1 comprising storing a plurality of frames (column 2, lines 29-33).

For claim 3, Simpson et al. disclose the method of claim 2 wherein at least two frames of said plurality of frames are acquired at different geometries (image

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registration 35 is used to register images of different orientation providing different geometries).

For claim 4, Simpson et al. disclose the method of claim 2 wherein a less compounded image output is generated from less than all of said plurality of frames (column 2, lines 26-28).

For claim 5, Simpson et al. disclose the method of claim 1, wherein generating said at least one image output comprises generating a compounded image (column 2, lines 26-28).

For claim 6, Simpson et al. disclose the method of claim 1, wherein generating said at least one image output comprises generating a non-compounded image (column 2, lines 26-28).

For claim 7, Simpson et al. disclose the method of claim 1, wherein generating said at least one image output comprises generating both compound and non-compound images (column 2, lines 26-28).

For claim 8, Simpson et al. disclose the method of claim 1, wherein displaying said at least one generated image output comprises displaying at least one . compounded image (column 2, lines 26-28).

For claim 9, Simpson et al. disclose the method of claim 1, wherein displaying said at least one generated image output comprises displaying at least one non-compounded image (column 2, lines 26-28).

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For claim 10, Simpson et al. disclose the method of claim 1, wherein displaying said at least one generated image output comprises displaying compounded and non-compounded images simultaneously (column 2, lines 26-28).

For claim 11, Simpson et al. disclose the method of claim 10, wherein at least said non-compounded images are generated in real time (column 4, lines 4-8).

For claim 12, Simpson et al. disclose the method of claim 1, wherein displaying said at least one generated image output comprises displaying compounded and non-compounded images sequentially (column 2, lines 26-28).

For claim 13, Simpson et al. disclose the method of claim 1, wherein generating said at least one image output comprises generating at least one non-compounded image from a plurality of image frames (column 2, lines 26-28).

For claim 14, Simpson et al. disclose a method for generating images comprising:

Storing (32) a plurality of frames (column 2, lines 29-33);

generating at least one of a compounded and non-compounded image output from said plurality of frames (column 2, lines 26-33); and

displaying (40) at least one of said generated compounded, non-compounded and both compound and non-compounded images (column 2, lines 26-29).

For claim 15, Simpson et al. disclose a system for generating an image using an ultrasound device (Figure 1) comprising;

a memory (32) for storing at least one frame (column 2, lines 29-33);

at least one processing device (30) adapted to process at least one of a compounded and non-compounded image (column 2, lines 26-28); and

a display device (40) adapted to display said at least one of said processed compounded and non-compounded image (column 2, lines 26-29).

For claim 16, Simpson et al. disclose the system of claim 15, where said at least one processing device (30) comprises at least a compound processing device (column 2, lines 26-28).

For claim 17, Simpson et al. disclose the system of claim 15, where said at least one processing device (30) comprises at least a non-compound processing device (column 2, lines 26-28).

For claim 18, Simpson et al. disclose the system of claim 15 comprising a switch coupled to said memory and said at least one processing device (column 2, lines 26-28; "or" operation acts as a switch).

For claim 20, Simpson et al. disclose the system of claim 15, wherein said memory may accept user input 9column 3, lines 3-7).

Allowable Subject Matter

3. Claim 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other prior art cited

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weng (US 5,396,890) discloses a three-dimensional scan converter for ultrasound imaging.

Weng et al. (US 5,782,766) disclose a method and apparatus for generating and displaying panoramic ultrasound images.

Adams et al. (US 6,464,638 B1) disclose an ultrasound imaging system and method for spatial compounding.

Dong et al. (US 6,423,004 B1) disclose a real-time ultrasound spatial compounding using multiple angles of view.

Tsujino (US 5,690,111) discloses an ultrasound diagnostic apparatus.

Saetre et al. (US 6,488,629 B1) disclose an ultrasound image acquisition with synchronized reference image.

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Contact Information

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5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kanji Patel whose telephone number is (571) 272-7454.

The examiner can normally be reached on Monday to Thursday from 8 a.m. to 6:30

p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bella, Matthew can be reached on (571) 272-7778. The fax phone number

for the organization where this application or proceeding is assigned is (571)-273-8300.

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Kanji Patel Art Unit 2624 12/22/06

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